

Basic codes by flashing "Check Engine-light" ("MIL")

- 1 Normal Condition**
- 2 Air Flow Meter signal**
MANIFOLD AND/OR AIRFLOW METER SENSOR circuit
 - AIRFLOW METER/circuit
 - MANIFOLD PRESSURE SENSOR/circuit
- 3 Ignition signal**
 - NO "IGF" SIGNAL to ECM
 - IGNITER/IGNITER CIRCUIT
 - IGNITER AND IGNITION COIL/circuit
- 4 Engine Coolant Temperature Sensor signal**
 - OPEN or SHORT IN WATER TEMP. SENSOR
 - WATER TEMPERATURE SENSOR circuit
 - WATER TEMPERATURE SENSOR
- 5 Oxygen Sensor OXYGEN SENSOR SIGNAL/OXYGEN SENSOR HEATER Signal**
OPEN OR SHORT IN OXYGEN SENSOR OR OXYGEN SENSOR Signal
- 6 RPM signal (Crank Angle Pulse) RPM Signal**
 - NO SIGNAL to ECU FROM DISTRIBUTOR ("Ne" or "G") AFTER ENGINE HAS BEEN CRANKED
 - DISTRIBUTOR/circuit
 - STARTERSIGNAL circuit
 - IGNITER/IGNITER circuit
- 7 Throttle Position Sensor Signal**
 - OPEN or SHORT Signal
 - TPS SENSOR
 - TPS Signal/circuit
- 8 Intake Air Temperature Sensor Signal**
 - Open or short INTAKE AIR TEMP. SIGNAL
 - INTAKE AIR TEMPERATURE circuit
 - INTAKE AIR TEMPERATURE SENSOR
- 9 Vehicle Speed Sensor Signal**
 - NO SPD. SIGNAL FOR SEVERLA SECONDS WHILE VEHICLE IS OPERATED UNDER HEAVY LOAD (TPS/MAP/AIR FLOW INPUTS)
 - SPEED SENSOR/circuit
- 10 Starter signal**
- 11 Switch signal LOSS OF POWER SUPPLY TO ECM**
 - IGNITION SWITCH/circuit
 - MAIN RELAY/circuit
- 12 Knock Control Sensor signal**
STARTER SIGNAL
 - NO "STA" SIGNAL TO ECM UNTIL ENGINE SPEED EXCEEDS 800 RPM
 - IGNITION SWITCH/circuit
- 12 RPM signal (G22 for -FSE)**
 - NO SIGNAL TO ECM FROM DISTRIBUTOR ("Ne" OR "G") AFTER ENGINE HAS BEEN CRANKED
 - DISTRIBUTOR/circuit
 - STARTERSIGNAL circuit
 - IGNITER/IGNITER circuit
- 12 Crankshaft position (CKP) sensor - circuit malfunction (3C-TE)**
- 13 Knock Control CPU (ECM)**
- 13 RPM signal (NE for -FSE)**
SAME AS above but after ENGINE has RUN AT 1,000 - 1,500 RPM
-DISTRIBUTOR/DISTRIBUTOR circuit
- 13 Fuel injection pump position sensor – circuit malfunction (3C-TE)**
- 14 Turbocharger Pressure**
- 14 Ignition signal**
 - No "IG" or "IGF" ignition signal to ECM from ignitior several times in succession (IGT1, IGT4, IGF for - FSE)
 - NO "IGF" SIGNAL TO ECM
 - IGNITER/IGNITER circuit
 - IGNITER AND IGNITION COIL/circuit
- 14 (2C-TE) Timing control system malfunction**
- 15 Ignition System (IGT2, IGT3, IGF for -FSE)**
- 15 (1CD-FTV) Throttle motor - circuit malfunction**
- 15 Throttle control circuit - malfunction**
- 16 Faulty in transmission/transaxle ECM (Transmission control signal)**
- 17 Engine control module (ECM) -malfunction**
- 18 Fuel quantity adjuster -malfunction**

- 19 Acceleration Pedal Position (AAP) Sensor/Switch circuit malfunction (VC, VPA, VPA2, E2 – for FSE, 3C-TE)**
- 21 Oxygen Sensor**
OXYGEN SENSOR SIGNAL/OXYGEN SENSOR HEATER SIGNAL
- OPEN or SHORT IN OXYGEN SENSOR OR OXYGEN SENSOR SIGNAL и еще десяток причин...
- 22 Engine Coolant Temperature Sensor signal**
- OPEN OR SHORT IN WATER TEMP. SENSOR SIGNAL
- WATER TEMPERATURE SENSOR circuit
- WATER TEMPERATURE SENSOR
- 23 Intake Air Temperature Sensor signal**
- OPEN OR SHORT IN INTAKE AIR TEMP. SIGNAL
- INTAKE AIR TEMPERATURE circuit
- INTAKE AIR TEMPERATURE SENSOR
- 24 Intake Air Temperature Sensor signal**
- OPEN OR SHORT IN INTAKE AIR TEMP. SIGNAL
- INTAKE AIR TEMPERATURE circuit
- INTAKE AIR TEMPERATURE SENSOR
- 25 Air-Fuel Ratio Lean**
- LEAN SIGNAL SENT TO ECU FROM O2 SENSOR
- INJECTOR FAULT(S)
- FUEL PRESSURE
- OXYGEN SENSOR
- AIRFLOW METER OR MAP SENSOR
- IGNITION
- 26 Air-Fuel Ratio Rich**
- SAME AS ABOVE
- COLD START INJECTOR
- 27 Sub Oxygen Sensor signal**
- SUB OXYGEN SENSOR/HEATER circuit
- 28 No. 2 Oxygen Sensor signal**
No.2 OXYGEN SENSOR/OXYGEN SENSOR HEATER
- SAME AS CODE 21
- 29 No. 2 Oxygen Sensor signal**
- 31 Air Flow Meter signal or Vacuum Sensor signal circuit**
- AIRFLOW METER/CIRCUIT
- MANIFOLD PRESSURE SENSOR (MAP) circuit
- 32 Air Flow Meter signal (VANE-TYPE)**
- AIRFLOW METER/circuit
- 32 (Diesel) Malfunction Resistance Signal**
- 32 (2C-TE) Module coding plug - malfunction**
- 32 (1CD-FTV) Injector - malfunction**
- 33 IAC Valve**
- OPEN OR SHORT IN IDLE AIR CONTROL VALVE Signal CIRCUIT or IDLE AIR CONTROL VALVE or ECM
- 33 Intake manifold air control solenoid –malfunction (3C-TE)**
- 34 Turbocharger Pressure signal**
- ABNORMAL TURBOCHARGER PRESSURE
- TURBO CHARGER
- AIRFLOW METER/MANIFOLD/TURBOCHARGER PRESSURE Signal
- INTERCOOLER SYSTEM
- 35 Turbocharger Pressure Sensor**
- TURBOCHARGER PRESSURE SENSOR (Gas.)
- 35 Manifold Absolute Pressure Sensor (Diesel, 3C-TE)**
- 35 HAC Sensor signal**
-OPEN CIRCUIT IN HIGH ALTITUDE COMPENSATOR Signal
- 36 ***
- 36 Sensor Combustion Pressure (Toyota Part No. 89468-20020)...**
- 39 (Avensis) Fuel temperature sensor - circuit**
- 39 VVT-i Valve (p1656,p1345,p1349, OCV for -FSE)**
- 39 Fuel temperature sensor - circuit malfunction (3C-TE)**
- 41 Throttle Position Sensor signal**
- OPEN OR SHORT IN TPS Signal
- TPS Sensor
- TPS Signal/circuit
- 42 Vehicle Speed Sensor signal**
- NO SPD. Signal for SEVERLA SECONDS WHILE VEHICLE IS OPERATED UNDER HEAVY LOAD (TPS/MAP/AIR FLOW INPUTS)
- SPEED Signal circuit

- 43 Starter signal**
 - NO "STA" Signal TO ECU until ENGINE SPEED exceeds 800 RPM
 - IGNITION SWITCH/circuit
- 45 EGR System malfunction**
 - VSV EGR
 - Temperature Sensor
- 47 Sub-Throttle Position Sensor**
 - Open or short circuit in Sub-Throttle position sensor signal
- 47 Throttle position (TP) sensor**
- 48 Vacuum Switching Circuit of Air Sw. Valve or Air Pump (EAP) Malfunction**
- 49 for D-4 System SFP (PR, VC, E2 for -FSE)**
- 51 Switch signal**
 SWITCH Signal IDL (tps) CONTACTS OFF, NEUTRAL START SWITCH OFF, A/C SWITCH "ON" Signal TO ECM WITH DIAGNOSTIC CHECK CONNECTOR SHORTED
 - A/C SWITCH/circuit
 - A/C AMPLIFIER
 - TPS/CIRCUIT
 - NEUTRAL START SWITCH/circuit
- 52 Knock Sensor signal**
 - OPEN OR SHORT IN KNOCK SENSOR Signal
 - KNOCK SENSOR/circuit
- 53 Knock Control signal in ECM FAULTY or Engine control module (ECM) knock control – defective (P1605)**
- 54 Inter-cooler ECM signal**
 Intercooler coolant circulation capacity diminished (fail-safe operation: ignition timing program retarded by 2 degr.)
- 55 Knock Sensor signal**
 Open or short circuit in knock sensor signal (Chaser TRD with 2JZ-GTE)
- 56 Cooling Fan Pressure Sw.**
- 58 SCVP, E2, SCV+, SCV (for -FSE)**
- 59 VVT-i Valve - for FSE)**
- 71 EGR System**
 EGR VALVE MALFUNCTION
 - EXHAUST GAS TEMPEATURE BELOW SPEC. FOR EGR CONTROL
 - EGR SYSTEM
 - EGR GAS TEMPERATURE SENSOR circuit
- 72 Fuel Cut Solenoid signal**
 IGF SIGNAL IS DETECTED FOR 4 CONSECUTIVE IGNITIONS
- 72 A/C System (A/C Relay Open)**
- 78 (Avensis) Fuel circuit - malfunction**
- 78, 79 Fuel Pump Control signal (S+, E1 for FSE) (P1235**
 - Fuel Pump Control signal, P1200- Fuel Pump Relay/ECU Malfunction ?)
 - Open or Short circuit in fuel Pump Control circuit or Fuel Pump Electronic Control Unit (ECU)
- 79 D-4**
- 81 TCM Communication**
 - Open in ECT1 circuit between ECM & Transmission Control Module (TCM) for at Least 2 seconds
- 83 TCM Communication**
 - Open in ESA1 circuit between ECM & Transmission Control Module (TCM) for 1/2 second after engine idles at least 1/2 second
- 84 TCM Communication**
 - Open in ESA2 circuit between ECM & Transmission Control Module (TCM) for 1/2 second after engine idles at least 1/2 second
- 85 TCM Communication**
 - Open in ESA3 circuit between ECM & Transmission Control Module (TCM) for 1/2 second after engine idles at least 1/2 second
- 89 (P1125, 1126, 1127, 1128) read a pulse ETCS-SNOW (Chaser TRD with 2JZ-GTE)**
- 92 D-4 (p1210)**
- 96 (p1600) Engine control module (ECM) -supply**
- 97 D-4 (p1215) EDU Malfunction**
- 97 (Avensis) Injector control module – circuit malfunction**
- 98 D-4**
- 99 (B2799) there is a trouble with immobilizer (for the OBDII-equiped Vechicle)**

* for Lexus a 90-94. Abbreviations (Toyota and Lexus a 1990-2000), CPS - Crank Position Sensor...